



OWNER'S MANUAL

**BDH-450 / BDH-550 BUCKETLESS
DEHUMIDIFIER**

BDH-450 / BDH-550



BUCKETLESS DEHUMIDIFIER

Read and retain these instructions for future reference

**For any Customer Support needs, please choose
the Support tab on www.royalsovereign.com**

Royal Sovereign International Inc.

BUCKETLESS DEHUMIDIFIER

Model BDH-450 / BDH-550

INTRODUCTION

Thank you for choosing Royal Sovereign to provide you and your family with premium “Air Comfort” solutions for your home, apartment, or office. This Dehumidifier can be set-up in just minutes and if properly maintained, will give you many years of trouble free operation.

This manual will provide you with valuable information necessary for the proper care and maintenance for your new appliance. Please take a few moments and read the instructions thoroughly.

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GENERAL USE

1. After unpacking the dehumidifier, wait 2 hours before using it. Common sense and caution must be used when installing, operating and maintaining any appliance.
2. This appliance should be used by adults only. Do not allow children to play with the appliance. Do not leave children unattended in an area where the appliance is operating. Do not allow them to sit or stand on the appliance.
3. This appliance is designed to dehumidify domestic living areas, and should not be used for other purposes. It should be operated in an enclosed area to be most effective. Close all doors, windows, and other outside openings to the room for maximum effectiveness.
4. Do not use outdoors.
5. Always remove the plug from the socket before performing maintenance operations, cleaning or when the dehumidifier will not be in used for an extended period.
6. Do not place heavy or hot objects on the top of the dehumidifier.

PRECAUTIONS FOR USE

1. Do not store or use gasoline, oil, sulphur, or other flammable vapors and liquids in the vicinity of this or any other appliance. Do not install the appliance near source of heat.
2. The appliance must not be modified in any way. Any modifications may be extremely dangerous.
3. Do not operate any appliance with a damaged cord or plug or after the appliance malfunctions, or has been damaged in any manner.
4. The use of accessory attachments is not recommended by the appliance manufacturer. It may cause injuries.
5. For your safety and protection, this dehumidifier is equipped with a three-prong grounding plug on the power cord. Do not, under any circumstances, cut or remove the round grounding prong from the plug.
6. Your dehumidifier must plug directly into a properly grounded and polarized three-prong outlet. If the wall outlet will not accept a three prong plug or if you are not sure the outlet is adequately grounded or protected by a time delay (use or circuit breaker, have a qualified electrician install the proper outlet. Do not use an extension cord or an adapter plug.
7. Never unplug the dehumidifier by pulling on the power cord. Always grip the plug firmly and pull straight out from the outlet. Do not pinch, bend, or knot the power cord.
8. The appliance should remain upright during transportation. Remember to drain the dehumidifier before transporting.

SET-UP

INSTALLING THE DRAINAGE HOSE

The drainage hose can be put out into any suitable area where water can be emptied.

The hose can be run outside through a window, in a sink, or in a drain.

Attention should be given to the flow of the drained water. Be sure it flows away from buildings and other objects that could be damaged.

CAUTION: The drainage hose MUST NOT be installed more than ten(10) feet above the floor on which the unit is standing.

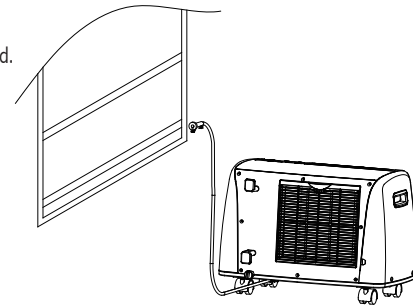
DISPOSING OF THE COLLECTED WATER

1. Continuous draining using the pump

Choose a safe location to drain the water that flows away from buildings and other objects that could be damaged.

Our specially designed vertical pump allows water removal of up to 10 feet in height making it possible to discharge the water out a window, into a drain pipe, or in a sink.

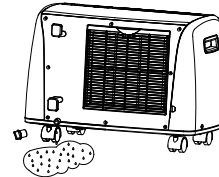
NOTE: Make sure the pump light is on when using this option.



2. Continuous draining without the pump

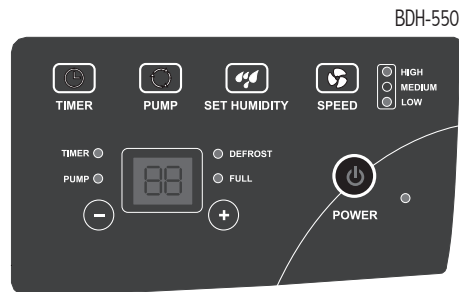
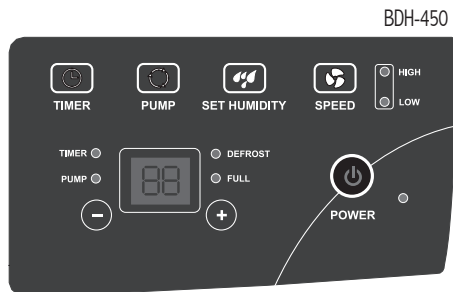
Condensed water can be drained without the use of the pump by connecting a hose to the outlet on the bottom of the unit. Remove the rubber plug and connect a hose to the unit to drain directly into a drain hole on the floor. Remember, water runs downhill. The drain point must be lower than the drain connector on the unit.

NOTE: Keep the plug in a safe place for when you choose to utilize the pump in the future.



OPERATION

Control Panel



POWER CONTROL BUTTON

The power control turns the unit on and off. When you press the control, the unit begins to operate and the light will illuminate.

TIMER PROGRAM

There are 2 different timer programs. You can set the number of hours before the dehumidifier automatically turns OFF or you can set the number of hours that will elapse before the unit turns ON. When the time is set, the timer light on the control panel will remain lit.

When the dehumidifier is turned off, you can choose to turn it on in one hour intervals.

1. Press the button on the display to turn on the timer function.
2. Press the + or - button on the display to set the desired hour.
3. The unit will turn on when the set time elapses.

When the dehumidifier is turned on, you can choose to turn it off in one hour intervals.

1. Press the button on the display to turn on the timer function.
2. Press the + or - button on the display to set the desired hour.
3. The unit will turn on when the set time elapses.

PUMP

Use the button to activate the heavy-duty pump system for active draining. Once the pump button is pressed, the pump light near the LCD Display will illuminate and the pump will automatically remove the water as it is collected.

If the pump light flashes it means that the pump is not functioning properly. Review the troubleshooting section of this manual for possible solutions.

SET HUMIDITY

The set humidity function will allow you to set the desired level of humidity you would like for the room. To set it, press the Set Humidity button and use the “+” or “-” button to set the percentage. The unit will turn on automatically when the room humidity is higher than the selected humidity.

For the best results, the humidity level should be reduced gradually. Start at the highest setting. Reduce it by 5% until the compressor turns on. Allow the unit to run at this level until it maintains this level of humidity, then continue to reduce it gradually until it is between 30% and 50% depending on your level of comfort.

After setting the desired humidity, the unit will run automatically, maintaining the desired humidity.

The Relative Humidity may be set from RH 30% to RH 80%. The operational temperature for this unit is between 40°F and 95°F. If the temperature of the room falls below 40°F, the unit will stop. This function protects the compressor, and is normal.

NOTE: The selected humidity may vary by 5%(+ or -)

FAN SPEED

Press to Speed button to select fan speed "HIGH" or "LOW". BDH-550 offers a "MEDIUM" fan speed.

DEFROST LIGHT

If ice forms on the internal coils, the defrost light will come on. The dehumidifier will automatically go into "Auto Defrost" mode. The defrosting light remains on until defrosting is completed. Once the defrosting process is finished, the unit will continue to remove humidity in the room.

WATER LIGHT

If for any reason the water is restricted from exiting the unit, the water light will be lit. Review the troubleshooting section of this manual for possible solutions.

MAINTENANCE

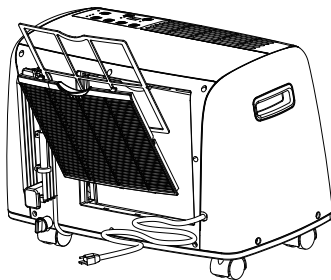
Always unplug the unit from the wall outlet before beginning cleaning.

The unit is equipped with a washable filter. Follow the instruction below to remove and clean it.

Cleaning the Air Filter

If the filter is dirty, air circulation is compromised and the efficiency of the dehumidifying decreases. It is good practice to clean the filter at regular intervals. The frequency depends on the duration and conditions of operation.

1. On the back of the dehumidifier, remove the filter by gently pulling the handle on the grille forward.
2. Use a vacuum cleaner to remove dust accumulations from the filter. If the filter is very dirty, wash in warm water and rinse several times.
3. After washing the filter, allow it to dry completely before replacing it.



TROUBLESHOOTING

Never try to repair or dismantle the dehumidifier yourself. Tampering with the unit may result in the loss of warranty and can endanger the both people and property.

Trouble	Cause	Solution
The unit does not operate	No power supply Unit is not turned on Humidity is set higher than room humidity	Plug power cord firmly into outlet and check fuses for that room Turn the unit on Set the humidity level on a lower percentage
Water light is lit	There is a blockage from the flow of water in the unit	Make sure pump is turned on Check the hose for crimps or blockage Make sure the height of the hose is below 10 ft
Low moisture removal	Air filter is dirty and or blocked The room temperature is below 40° F Poor air circulation or obstruction Humidity is set higher than the room humidity	Clean the filter Increase the room temperature Improve the airflow by moving unit away from anything that obstructs the airflow Set the humidity percentage to a lower percentage
Relative Humidity setting not being reached after a long period of operation	There are windows or doors opened. Area/room is too large for the capacity of the dehumidifier.	Check to see the windows and doors are closed. Change the location of the dehumidifier with-in the room
Defrost Light is On	The temperature in the room is below 40° F Air filter is dirty	Raise the room temperature above 40° F Remove and clean the air filter
The appliance does not work since the last switch off	The safety device has been activated	Wait 3 minutes for this to pass

SPECIFICATIONS

- Figures noted in the contents are for reference only; variation may result due to the application in different countries or regions, and shall be based on practical operation.

Description of product	Bucketless Dehumidifier	
Model	BDH-450	BDH-550
Dehumidifying capacity (Pints / Day)	45 Pint	55 Pint
Power Consumption (W)	550	750
Timer	24 Hours	
# Fan speed	2	3
Unit Dimensions	21.3 x 12.6 x 15(in) / 541 x 320 x 381(mm)	
Unit Weight	39.7 (lbs) / 18(kg)	

"Electrical waste products should not be disposed of with household waste.
Please recycle where facilities exist. Check with your local authority or retailer for recycling advice."



FULL ONE YEAR WARRANTY

Royal Sovereign warrants each Dehumidifier to be free from defects in material and workmanship. Our obligation under this warranty is limited to the repair or replacement, free of charge, when delivered to an authorized Royal Sovereign service center, of any defective part(s) thereof, other than parts damaged in transit. This warranty is in effect to the original purchaser, for a period of one year from the date of purchase and is not transferable. This warranty shall apply only if the dehumidifier is used on Alternating Current (AC) circuit, in accordance with the factory provided instructions which accompany it.

LIMITED FIVE YEAR WARRANTY (COMPRESSOR)

For a period of five years from the date of purchase, when this Royal Sovereign Dehumidifier is operated and maintained according to the instruction manual provided with the product, Royal Sovereign will supply a replacement compressor (parts only), free of charge, if the original compressor is determined to be defective in workmanship or material. If repair becomes necessary, please contact our customer service center. You will be responsible for all freight, insurance, and any other transportation charges to get the unit to our factory or service center. If shipping is required, be sure to pack the unit properly to avoid shipping damages, as we will not be responsible for such damages.

EXCLUSIONS

This warranty excludes and does not cover defects, malfunctions or failures of your Royal Sovereign Dehumidifiers, caused by repairs by unauthorized persons or service centers, mishandling, improper installation, modification or unreasonable use including incorrect voltage, acts of God, or failure to provide reasonable and necessary maintenance. This warranty is in lieu of any and all expressed warranties. In no event shall Royal Sovereign be liable for consequential or incidental damages. This limitation would not apply if you live in a location that does not permit the exclusion of limitation of incidental or consequential damages. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.



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